



## Material Safety Data Sheet

### Hemp Straw

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This Material Safety Data Sheet (MSDS) applies to Hemp straw, hemp (bast) fibers and hemp hurd manufactured and supplied by IND Hemp.

### 1. Product Identification

Product	Manufacturing Location
Hemp Straw (fiber & hurd)	Ft. Benton, MT
Separated Hemp Fibers	Ft. Benton, MT
separated Hemp Hurd	Ft. Benton, MT

### 2. Hazardous Ingredients/ Identity Information

Name	CAS#	Percent	Agency	Exposure Limits	Comments
Hemp Straw <sup>1</sup>	none	99%	OSHA OSHA ACGIH ACGIH	PEL-TWA 15 mg/m <sup>3</sup> PEL-TWA 5 mg/m <sup>3</sup> TLV-TWA 3 mg/m <sup>3</sup> TLV-STEL 10 mg/m <sup>3</sup>	As Dust Respirable dust fraction Respirable dust fraction Inhaled Particles
Separated Hemp Fibers <sup>2</sup>	none	95%	OSHA OSHA ACGIH ACGIH	PEL-TWA 15 mg/m <sup>3</sup> PEL-TWA 5 mg/m <sup>3</sup> TLV-TWA 3 mg/m <sup>3</sup> TLV-STEL 10 mg/m <sup>3</sup>	As Dust Respirable dust fraction Respirable dust fraction Inhaled Particles
Separated Hemp Hurd <sup>3</sup>	none	95%	OSHA OSHA ACGIH ACGIH	PEL-TWA 15 mg/m <sup>3</sup> PEL-TWA 5 mg/m <sup>3</sup> TLV-TWA 3 mg/m <sup>3</sup> TLV-STEL 10 mg/m <sup>3</sup>	As Dust Respirable dust fraction Respirable dust fraction Inhaled Particles

1. Refers to Industrial Hemp straw (stalk) as whole or chopped.
2. Refers to Industrial Hemp fiber (outer bark) as whole or chopped.
3. Refers to Industrial Hemp hurd (inner wood core) as whole or chopped.

### 3. Hazard Identification

**Appearance:** Light to dark brown or caramel with black colorations; loose sticks, fibers or chips

**Odor:** Slightly aromatic.

### 4. Hazard Identification (continued)

**Primary Health Hazard:** The primary health hazards posed by these products are due to possible inhalation of dust produced from handling, and to a much lesser extent slivers from handling.

**Primary Routes of Exposure:** Skin contact, ingestion, inhalation, eye contact.

**Acute Effects:** Very mild skin irritant or embedment of slivers, ingestion is not anticipated but may irritate the mouth and throat, inhalation of dust may aggravate preexisting respiratory or allergy conditions, dust may be a mild eye irritant.

**Chronic Effects:** Hemp dust has not been associated with any long term effects including cancer in animals or humans.

### 5. First Aid Measures

**Skin Contact:** Frequent handling of fibers may cause some minor drying of the skin or cuts or slivers. Wash hands with soap and water after use, and seek medical help if irritation persists.

**Ingestion:** Ingestion is not anticipated under normal use.

**Inhalation:** Hemp dust may result in obstruction of nasal passage, dryness of nose, mouth, throat, causing coughing or sneezing. Remove to fresh air, seek medical help if persistent irritation, coughing or breathing difficulty persists.

**Eye Contact:** As with any foreign object, flush with plenty of water and seek medical attention.

### 6. Fire Data

**Flammability:** Variable: ignition temperature of 400-500°F (205-260°C)

**Extinguishing Media:** Water, carbon dioxide, dry chemical, sand.

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.

**Special Fire or Explosion Hazards:** None.

### 7. Accidental Release Measures

**Personal Precautions:** Wear protective equipment, ensure adequate ventilation, remove sources of ignition.

**Clean-up Methods:** Dust may be swept or vacuumed for recovery or disposal.

### 8. Handling and Storage

**Handling:** Avoid breathing dust if it is produced.

**Storage:** Store in a cool, dry place away from open flame. Store in air-tight containers to avoid moisture absorption, and if at all possible, keep in climate controlled environment.

## 9. Exposure Controls and Personal Protection

**Exposure Limits:** See 2. Hazardous Ingredients above.

## 10. Exposure Controls and Personal Protection (continued)

### Personal Protective Equipment:

**Protective Gloves:** Not required. If irritation develops, nitrile gloves can minimize effects.

**Respiratory Protection:** Not required in purchased form, if dust exposure limits are exceeded or irritation develops, a NIOSH-approved dust respirator is recommended.

**Protective Clothing:** Not required in purchased form.

## 11. Physical and Chemical Properties

**Physical State:** chopped and loose stick, fibers or chips

**Appearance:** Light to dark brown or caramel with black colorations.

**Odor:** Slightly aromatic.

**pH:** Not Applicable.

**Ignition Temp:** 400-500°F (205-260°C)

**Specific Gravity:** Variable; 0.6 g/cm<sup>3</sup> – 1.4 g/cm<sup>3</sup>

**Vapor Pressure:** Not Applicable.

**Vapor Density:** Not Applicable.

**Melting Point:** Not Applicable.

**Evaporation rate:** Not Applicable.

**Percent Volatile:** Not Applicable.

**Viscosity:** Not Applicable.

**VOC Content:** Not Applicable.

## 12. Stability and Reactivity

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** Avoid open flame, product may ignite at temperatures in excess of 400°F (205°C).

Avoid possibility of contamination by foreign objects or substances.

**Incompatible Materials:** Avoid contact with oxidizing agents.

**Hazardous Decomposition or Products:** Combustion products include carbon monoxide, carbon dioxide, and hydrocarbons.

**Hazardous Polymerization:** Does not occur.

**Sensitivity to Mechanical Impact:** CSM mat integrity is sensitive to careless handling.

## 13. Toxicology Information

**Acute Effects:** None Known.

**Chronic Effects:** Hemp dust has not been associated with any long term effects including cancer in animals or humans.

## **14. Ecological Information**

No information available at this time.

## **15. Disposal Considerations**

Dry land disposal is acceptable in most states.

## **16. Transport Information**

The product is not regulated as a hazardous material by the U.S. Department of Transportation.

## **17. Regulatory Information**

All components of this material are listed on, or not required to be listed on the U.S. Toxic Substances Control Act (TSCA). This product does not contain any chemicals which are subject to reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### **SARA 313 Hazardous Categorization:**

**Acute Health Hazard:** dust

**Chronic Health Hazard:** no

**Sudden Release Hazard:** no

**Reactive Hazard:** no

## **18. Other Information**

**Prepared By:** IND Hemp, (406) 622-5680

**Revision Date:** 9/28/20

**Revision Number:** 1

The information in this Material Safety Data Sheet is provided in good faith and is accurate and technically correct to the best of IND Hemp knowledge at the time of its creation, however, IND Hemp makes no representation as to its completeness or accuracy. It is the users responsibility to determine if this information is suitable for their applications and to follow safety precautions as necessary. The user is responsible to make sure that this sheet is the most current issue.